

Part 1. Command line execution and compilation

You may have little or no work to do in this part.

Test to see if your path variable is set to point to the JDK/bin directory by running the following commands from a command prompt. This must be tested in a directory other than your JDK bin directory.

- java -version
- javac -version

The version should be the same number and should be greater than or equal to 7.

If the test fails then either you have no JDK installed or your path variable is not set.

If you have no JDK installed (the JRE alone is not sufficient) then follow these instructions.

1. Download the JDK for your configuration from <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>
2. You may need to create a profile before you can download
3. Install the JDK and accept all the defaults.

For Mac :

4. For Mac, it sets the entire configuration setting by itself and further software installations like Netbeans and Android studio should be able to pick the installation directory and configuration.

For Windows:

5. In windows, you should check if the JAVA_HOME and Path variables are set. Follow the following steps:
6. Right click on My Computer and select properties
7. Click on "Advanced System settings" in the left hand top of the window.
8. Click on "Environment Variables" to bring the user variables and system variables
9. Confirm that JAVA_HOME is set under "User Variables". It must be set to a JDK and not a JRE. For example, on a system with JDK6 it might be set to C:\MyJava\Java\jdk1.6.0_10.
10. Confirm that the Path is set under the "System Variables". The path variable should be set to the JDK's bin directory. For example, the path variable might be set to C:\MyJava\Java\jdk1.6.0_10\bin.

11. If the JAVA_HOME is not set, click new under “User Variables” and specify the “Variable Name” as JAVA_HOME and “Variable Value” as the installation directory of your JDK – not the bin directory.
12. If the Path variable is not set, click new under “System Variables” and specify the “Variable Name” as Path and “Variable Value” as {installation directory of your JDK}\bin.
13. After setting the JAVA_HOME and Path variable, NetBeans and Android Studio should be able to pick the Java installation directory.

Part 2. Installation of Netbeans

Follow these steps to install NetBeans:

1. Go to <https://netbeans.org/downloads/>
2. Under the “All” column, click on “Download” button for the NetBeans IDE download bundles.
3. If you are installing NetBeans on a Mac then follow the following steps. If you are using a windows system jump to step 9

For Mac Users:

4. Click on the “netbeans-8.x.x-macosx.dmg” file downloaded on the system. Typically the file is present in “Downloads” folder.
5. Click on the “netbeans-8.x.x-macosx.pkg” file to start the installation.
6. It might ask for a confirmation: “This package will run a program to determine if the software can be installed.”. Please click continue
7. Browse through the standard installation window and install NetBeans
8. After installation NetBeans would be available in “Launchpad” of Mac. Click on the icon and start NetBeans

For Windows User:

9. Click on the .exe file and select all the defaults and click finish.
10. The installation would be available in the start menu/applications.

Part 3. To gain credit for this lab:

- 1) Show a TA that you are able to run java -version and javac -version from the command line (over various directories).
- 2) Show your TA that you have Netbeans installed and working.